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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/705,899	11/13/2003	Joun Ho Lee	8733.275.20-US	6109
	7590 04/09/201 <b>DNG &amp; ALDRIDG</b> E L	EXAMINER		
1900 K STREE		NGUYEN, HOAN C		
WASHINGTON, DC 20006			ART UNIT	PAPER NUMBER
			2871	
			MAIL DATE	DELIVERY MODE
			04/09/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/705,899	LEE ET AL.			
Office Action Summary	Examiner	Art Unit			
	HOAN C. NGUYEN	2871			
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>01 F</u> This action is <b>FINAL</b> . 2b) ☑ This      Since this application is in condition for allowed closed in accordance with the practice under the practice.	s action is non-final. ance except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1 and 26-33 is/are pending in the appear 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) 33 is/are allowed. 6) ☐ Claim(s) 1 and 26-32 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	awn from consideration.				
Application Papers					
9) The specification is objected to by the Examina 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct to by the E	cepted or b) objected to by the E drawing(s) be held in abeyance. See ction is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) \( \sum \) Notice of References Cited (PTO-892)  2) \( \sum \) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)	ate			
3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application 6) Other:					

## **DETAILED ACTION**

### Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 02/01/2010 has been entered.

Claims 2-25 are cancelled.

Claims 1, 26-33 are pending.

### Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1 and 16-32 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

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The claim 1 amended with the features: "an auxiliary electrode line electrically connected to the first gate line or the second gate line", wherein

- "the auxiliary electrode line is formed between the pixel electrode and the first data line or between the pixel electrode and the second data line and the auxiliary electrode line is spaced apart from the first and second data lines,
- "the auxiliary electrode line comprises a first region which does not overlap with the pixel electrode and a second region overlapping with the pixel electrode"
- "the auxiliary electrode line comprises a first auxiliary electrode line extending from the first gate lines to the pixel region in a direction parallel to the first data line and a second auxiliary electrode line extending from the second gate line to the pixel region in a direction parallel to the second data line"

These combination features do not disclose in the original specification, which discloses the feature of "the auxiliary electrode line comprises a first region which does not overlap with the pixel electrode and a second region overlapping with the pixel electrode" as the conventional prior art in Figure 2-3 from the pending Korea Application No. 99-05587. The feature of "the auxiliary electrode line comprises a first region which does not overlap with the pixel electrode and a second region overlapping with the pixel electrode" does not appear in the Figure 4 of the instant invention. Therefore, these combination features are new subject matter.

Claims 26-32 are rejected since they depend on the infinitive claim 1.

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# Allowable Subject Matter

Claim 33 is allowed. The following is an examiner's statement of reasons for allowance: Claim 33 is allowed since there is no prior teaches a multi-domain liquid crystal display device, comprising: an auxiliary electrode line electrically connected to at least one of the gate lines in each pixel region, the auxiliary electrode line and the multi-domain structure distorting an electric field applied between the common electrode and the pixel electrode to thereby form at least two domains in each pixel region during an operation of the multi-domain liquid crystal display, wherein

- the auxiliary electrode line is formed between the pixel electrode and the data
   line at an outside of the pixel electrode in the pixel region and the auxiliary
   electrode line is spaced apart from the data line, wherein
- the common electrode includes the slit,
- the auxiliary electrode line takes advantage of the gate signal applied to the gate lines to form the multi-domain,
- the gate line has a larger width than the auxiliary electrode line,
- the auxiliary electrode line does not overlap with the pixel electrode.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HOAN C. NGUYEN whose telephone number is (571)272-2296. The examiner can normally be reached on MONDAY-THURSDAY:8:00AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

HOAN C. NGUYEN Primary Examiner Art Unit 2871

Chn /HOAN C. NGUYEN/ Primary Examiner, Art Unit 2871